

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Application No.               | Applicant(s)                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                             |                                             |
| Notice of Allowability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10/677,627<br><b>Examiner</b> | YATAKE, MASAHIRO  Art Unit                  |
| , vol. oo o, , iii o i abiii y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Exammer                       | Artonic                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Helene Klemanski              | 1755                                        |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. |                               |                                             |
| 1. This communication is responsive to <u>amendment filed December 27, 2005</u> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                             |
| 2. 🗵 The allowed claim(s) is/are <u>2-8 and 10-23</u> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |                                             |
| <ul> <li>3.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                                             |
| 2. Certified copies of the priority documents have been received in Application No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |                                             |
| 3. Copies of the certified copies of the priority documents have been received in this national stage application from the                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                               |                                             |
| International Bureau (PCT Rule 17.2(a)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                             |
| * Certified copies not received:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                             |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.                                                                                                                                                                                                                                                                                                                 |                               |                                             |
| 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.                                                                                                                                                                                                                                                                                                                                                           |                               |                                             |
| 5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |                                             |
| (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                               |                                             |
| 1)  hereto or 2)  to Paper No./Mail Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                             |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of<br>Paper No./Mail Date                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                             |
| Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).                                                                                                                                                                                                                                                                                                                            |                               |                                             |
| 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.                                                                                                                                                                                                                                                                                                                                                                            |                               |                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                             |                                             |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5.                            | atent Application (PTO-152)                 |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6. Interview Summary          |                                             |
| 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8), 7. Examiner's Amendr      | Paper No./Mail Date 7.                      |
| Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8. ⊠ Examiner's Stateme       | HELENE/MEMANISH PRIMATY EXAMINER GROUP 1700 |

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## **DETAILED ACTION**

## **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance: This application teaches a water-based ink comprising (1) a colorant dispersion in which a pigment has been made to be dispersible in water by being enveloped in a polymer or has been dispersed without a dispersant, water, a water-soluble organic solvent a surfactant and nitrilotriacetic acid or salt thereof as a chelating agent (i.e. claims 2-5 and 11-23) and (2) a colorant, water, a water-soluble organic solvent, a surfactant and specific chelating agents as claimed by applicants (i.e. claims 6-8 and 10). The closest prior art of record pertaining to the first water-based ink above is Ichizawa et al., Lin, Yeh et al. and Parliament which all teach an aqueous ink comprising a chelating agent selected from a long list of chelating agents including EDTA and some of applicants specific chelating agents. Applicants have provided evidence in the specification that the ink of the instant claims containing specific chelating agents provides superior storage stability as compared to the inks containing EDTA of Ichizawa et al., Lin, Yeh et al. and Parliament. Accordingly, the claims are allowable over the above prior art. The closest prior art of record pertaining to the second water-based ink above is Lee et al., which teaches an aqueous ink comprising a coloring agent, water, a water-soluble organic solvent, a surfactant and hydroxyethylene di(phosphonic acid) (HEDP) as a chelating agent but fails to teach or fairly suggest the addition of the specific chelating agents as claimed by applicants. Accordingly, the claims are allowable over the above prior art.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helene Klemanski whose telephone number is (571) 272-1370. The examiner can normally be reached on Monday-Friday 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on (571) 272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Helene Klemanski Primary Examiner Art Unit 1755

January 9, 2006